
Installation and Operation Instructions for

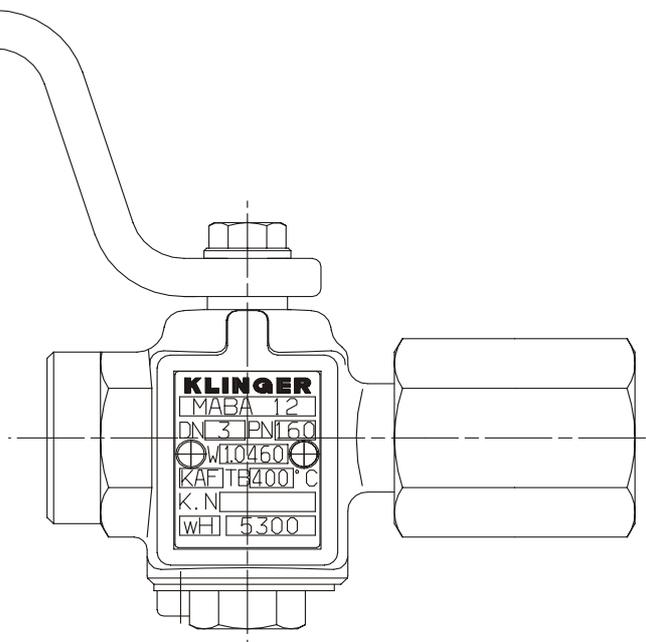
KLINGER

MAB Pressure Gauge Cocks

asbestos-free model

Standard Type Program

MABA
MABC
MABU
MABAL



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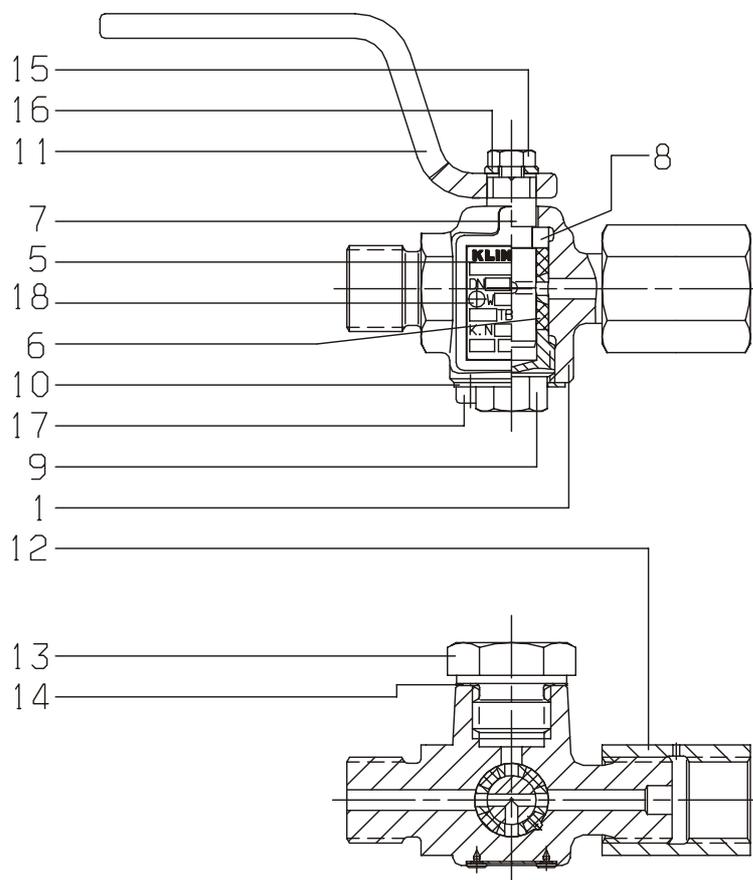


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Component Names

- 1 Body
- 5 Name plate
- 6 Packing sleeve
- 7 Cock plug
- 8 Split ring
- 9 Tightening nut
- 10..Locking plate
- 11 Cock handle
- 12 Right-left coupling
- 13 Plug
- 14 Gasket
- 15 Hexagon head screw
- 16 Washer
- 17 Cap screw

Klinger MAB-series pressure gauge cocks are shut-off fittings which are developed for measurement technologies.

Operating principle

A cylindrical cock plug and elastic packing sleeve enable rapid opening and closing over a 90° travel path. The unit is activated with a removable handle (also safeguard against unauthorized activation).

All cocks are closed CLOCKWISE, except the MABAL model, which is closed counter clockwise.

The packing sleeve is secured to the body in locked position by a spring and a groove. An eyelet mounted across the ports keeps the entire cross section intact and protects the sealing material against erosion.

The larger sealing surface of the cock packing sleeve ensures tightness both across the ports and to the outside.

It is the only wearing part that can be replaced easily and quickly. The fitting itself needs not to be removed from the tubing.

The cylindrical cock plug is prevented from slipping out of the body by a split ring.

The position of the through hole is visible at the twin edge of the plug, or at the notches of the cock plug and stop, also at the cock handle.

In the event of leaks, the retightening nut can be used to retighten the packing sleeve in the open position, observing the necessary tightening torque. This threaded joint is safeguarded against loosening or manipulation by a locking plate.

MAB cocks can be installed in any position and are not limited to any specific flow-direction.

MAB cocks for General Use

- *as a shut-off fitting for all media encountered in practice per the media table in our catalogue and within the respectively indicated limits of application.*

MAB Cocks as Instrument Lead Cocks

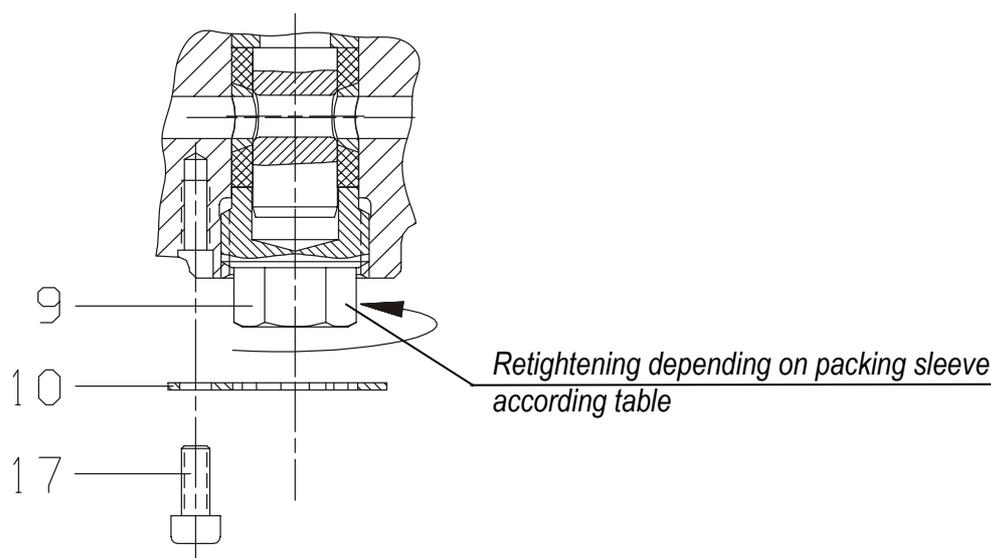
- *as pressure gauge cocks for connecting manometers and test manometers.*
 - *as special instrument lead cocks for instrumentation and control engineering as a whole*
-

Resealing

The MAB-cocks which are delivered with Kor-AF-sleeves from the manufacturer are tightened with 35 Nm. At starting apparatus retighten again with 35 Nm, at operation only after demand. This applies only to the sealing material Kor-AF!

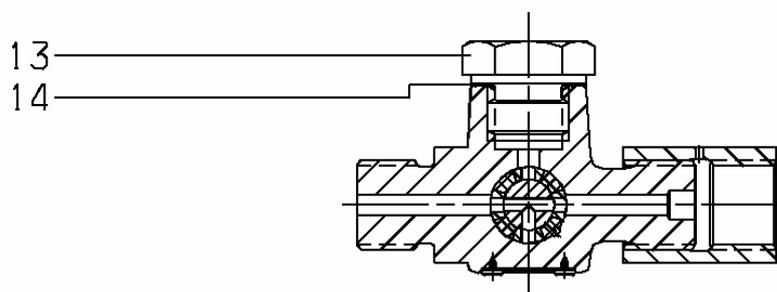
MAB-cocks with PTFE-packing sleeves or KFG-packing sleeves are tightened by factory with 20 Nm, and need not be retightened. Despite this, a retightening of PTFE and KFG packing sleeves, may make sense in case of an emergency, to overcome a certain period of time till change of packing sleeves.

Tightening torque for packing sleeves	
Kor-AF	35 Nm
PTFE (Klinger Flon)	20 Nm
KFG (glasfibre filled PTFE)	20 Nm



ATTENTION: Resealing is only possible in OPEN position!

- Loosen cap screw (item 17)
- Remove locking plate
- use tightening nut (item 9) for resealing – tightening torque depending on packing sleeve according to table
- Put on locking plate in such a way as to allow the mounting of the cap screw

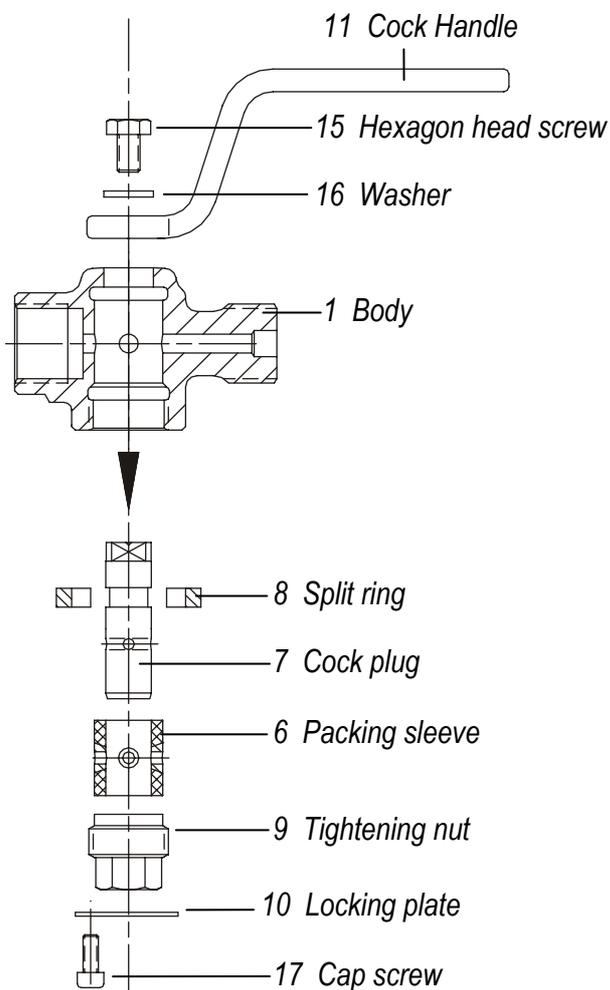


The gasket (pos.14) is tightened with 100Nm during montage due to the plug (pos.13)

Installation Instructions

If an AB cock has developed a leakage and retightening no longer seals the leak, the packing sleeve must be replaced. If the cock plug is found to be damaged after disassembly, it must also be replaced

MABA, MABC, MABU



Dismantling

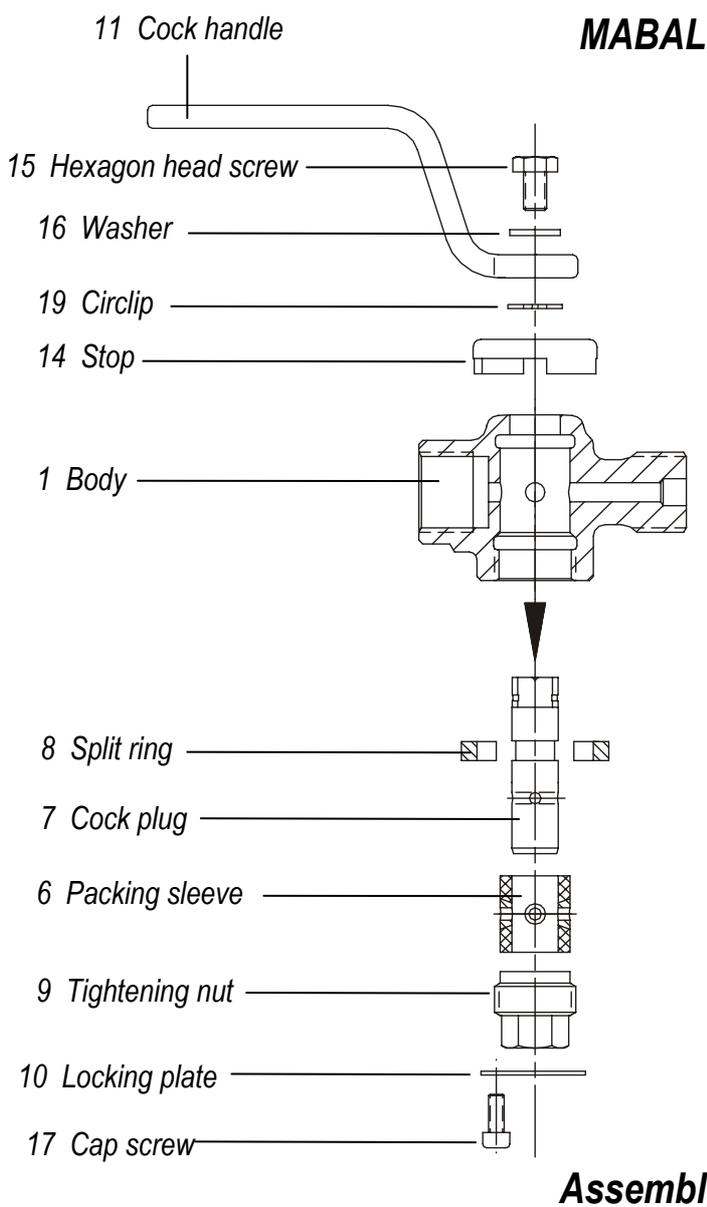
- Loosen cap screw (item 17)
- remove locking plate (item 10)
- Unscrew tightening nut (item 9)
- Loosen hexagon head screw (item 15), remove washer (item 16) and cock handle (item 11) from cock plug (item 7)
- Knock cock plug (item 7) with split ring (item 8) and packing sleeve (item 6) out of the body (item 1)
- Take off split ring (item 8) and press cock plug (item 7) through the packing sleeve (item 6)

Assembly

- Insert split ring (item 8) in the groove of the cock plug (item 7)
- Slide packing sleeve (item 6) onto the cock plug (item 7) up to the split ring (item 8)
- Press the entire unit into the hole of the body

ATTENTION: The packing sleeve spring must rest in the groove of the body hole.
The packing sleeve eyelets may not protrude or lie titled in the packing sleeve through the hole.

- Screw in the tightening nut (item 9) – tightening torque depending on packing sleeve according to table on page 5
- Place the cock handle (item 11) and the washer (item 16) on the cock plug (item 7) and fix them with a hexagon head screw (item 15)
- Put on the locking plate (item 10), fasten it with hexagon a head screw (item 17)



Dismantling

- Loosen cap screw (item 17)
- remove locking plate (item 10)
- Unscrew tightening nut (item 9)
- Loosen hexagon head screw (item 15), remove washer (item 16) and cock handle (item 11) from cock plug (item 7)
- Remove circlip (item 19) and stop (item 14) from cock plug (item 7)
- Knock cock plug (item 7) with split ring (item 8) and packing sleeve (item 6) out of the body (item 1)
- Take off split ring (item 8) and press cock plug (item 7) through the packing sleeve (item 6)

- Insert split ring (item 8) in the groove of the cock plug (item 7)
- Slide packing sleeve (item 6) onto the cock plug (item 7) up to the split ring (item 8)
- Press the entire unit into the hole of the body

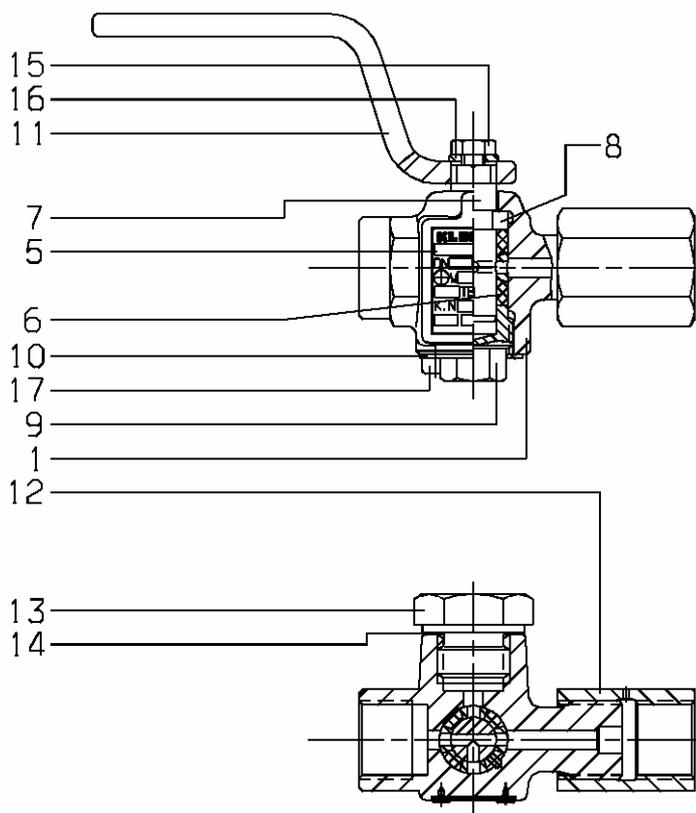
ATTENTION: The packing sleeve spring must rest in the groove of the body hole.
The packing sleeve eyelets may not protrude or lie tilted in the packing sleeve through the hole.

- Screw in the tightening nut (item 9) – tightening torque depending on packing sleeve according to table on page 5
- Slide the stop (item 14) onto the cock plug (item 7) and secure it with the circlip (item 19)
- Place the cock handle (item 11) and the Washer (item 16) on the cock plug (item 7) and fix them with a hexagon head screw (item 15)
- Put on the locking plate (item 10), fasten it with hexagon a head screw (item 17)

Storage Instructions

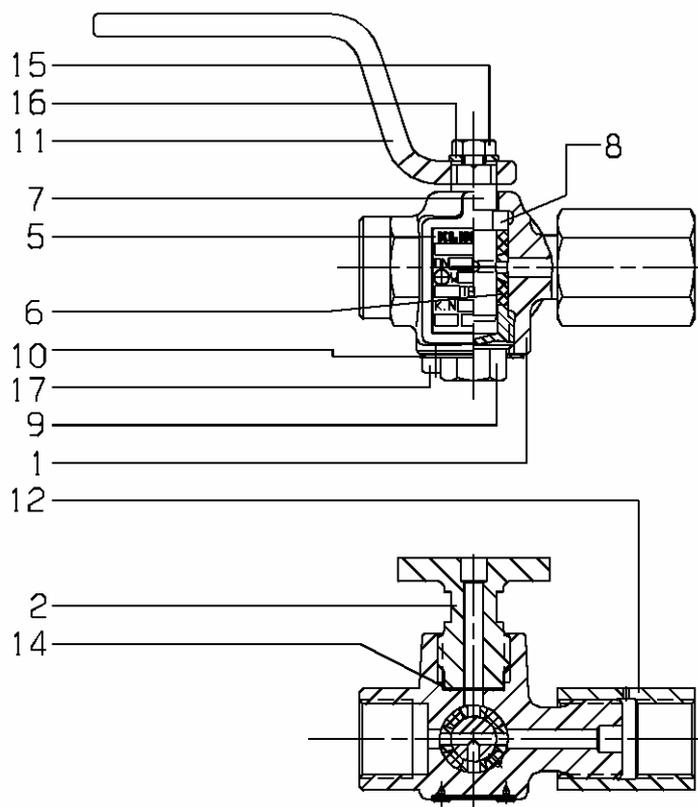
The fittings must be stored in accordance with DIN 3230, sheet 1 in closed rooms, in a non-corrosive atmosphere, and protected against moisture and dirt. Replacement parts especially packing sleeves must be stored in dry, cool rooms.

Components for Type MABA 12 KLINGER Pressure Gauge Cocks



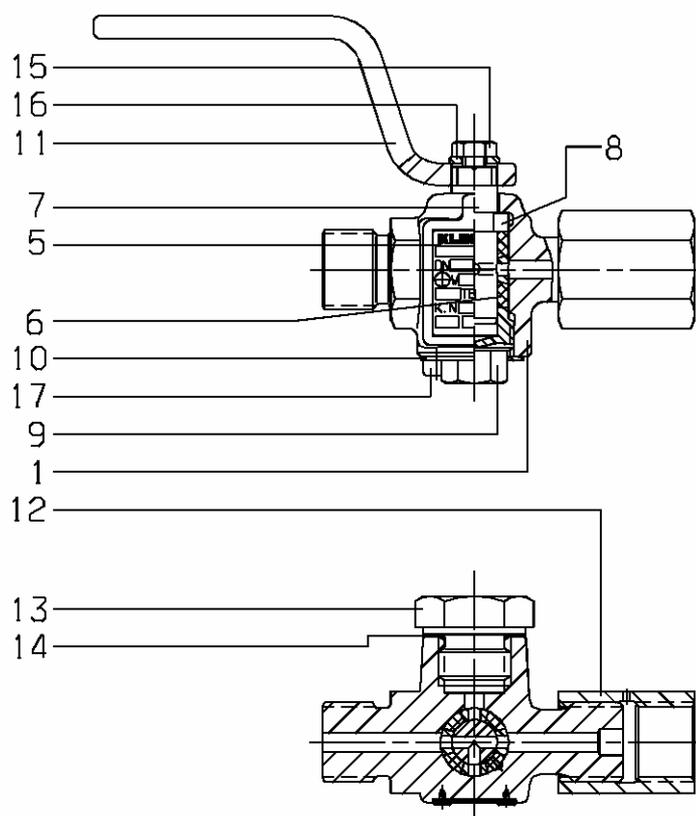
Part	Name	Material			Spare Parts
		VIII	X	IV	
1	Body	1.0460	1.4571	2.0401	
5	Name plate	1.4301	1.4301	1.4301	
6	Packing sleeve	Kor-AF or PTFE or KFG			*
7	Cock plug	1.4401	1.4401	1.4401	*
8	Split ring	1.4401	1.4401	1.4401	
9	Tightening nut	1.4401	1.4401	1.4401	
10	Locking plate	1.4401	1.4401	1.4401	
11	Cock handle	0.8135	0.8135	0.8135	
12	Right-left coupling	1.0711.07	1.4571	2.0401	
13	Plug	1.0715.07	1.4305	1.0715.07	
14	Gasket	Soft nickel	Soft nickel	Soft nickel	
15	Hexagon head screw	A4	A4	A4	
16	Washer	A4	A4	A4	
17	Cap screw	A4	A4	A4	

Components for Type MABC 12 KLINGER Pressure Gauge Cocks



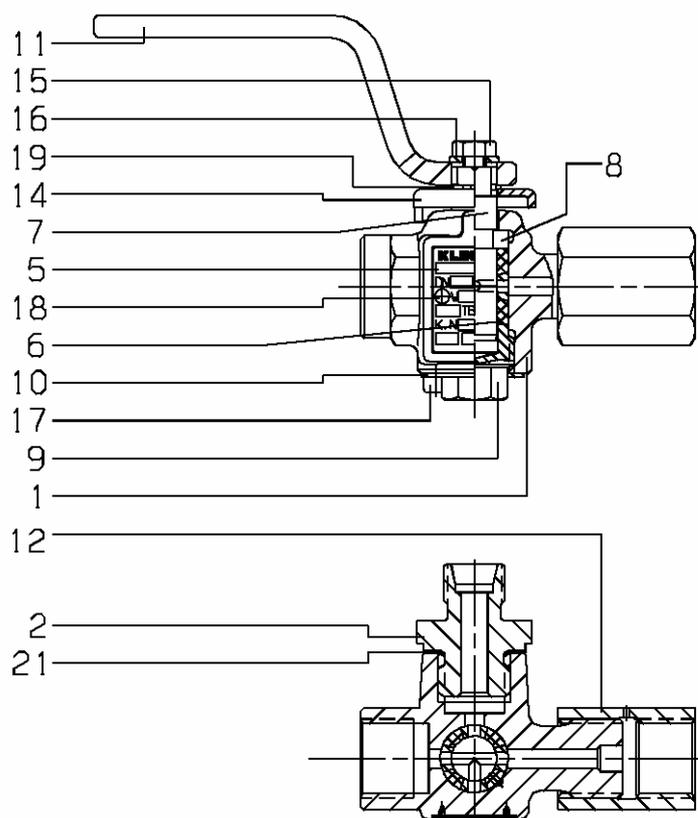
Part	Name	Material			Spare Parts
		VIII	X	IV	
1	Body	1.0460	1.4571	2.0401	
2	Test flange	1.0736	1.4401	1.0736	
5	Name plate	1.4301	1.4301	1.4301	
6	Packing sleeve	Kor-AF oder PTFE oder KFG			*
7	Cock plug	1.4401	1.4401	1.4401	*
8	Split ring	1.4401	1.4401	1.4401	
9	Tightening nut	1.4401	1.4401	1.4401	
10	Locking plate	1.4401	1.4401	1.4401	
11	Cock Handle	0.8135	0.8135	0.8135	
12	Right-Left coupling	1.0711.07	1.4571	2.0401	
14	Gasket	Soft nickel	Soft nickel	Soft nickel	
15	Hexagon head screw	A4	A4	A4	
16	Washer	A4	A4	A4	
17	Cap screw	A4	A4	A4	

Components for Type MABU 12 KLINGER Pressure Gauge Cocks



Part	Name	Material			Spare parts
		VII	X	IV	
1	Body	1.0460	1.4571	2.0401	
5	Name plates	1.4301	1.4301	1.4301	
6	Packing sleeve	Kor-AF oder PTFE oder KFG			*
7	Cock plug	1.4401	1.4401	1.4401	*
8	Split ring	1.4401	1.4401	1.4401	
9	Tightening nut	1.4401	1.4401	1.4401	
10	Locking plate	1.4401	1.4401	1.4401	
11	Cock handle	0.8135	0.8135	0.8135	
12	Right-left coupling	1.0711.07	1.4571	2.0401	
13	Plug	1.0715.07	1.4305	1.0715.07	
14	Gasket	Soft nickel	Soft nickel	Soft nickel	
15	Hexagon head screw	A4	A4	A4	
16	Washer	A4	A4	A4	
17	Cap screw	A4	A4	A4	

Components for Type MABAL KLINGER Pressure Gauge Cocks



Part	Name	Material VIII		Spare parts
		VIII	iV	
1	Body	1.0460	2.0401	
2	Twin nipple	1.0715.07	1.0715.07	
5	Name plate	1.4301	1.4301	
6	Packing sleeve	Kor-AF oder PTFE oder KFG		*
7	Cock plug	1.4401	1.4401	*
8	Split ring	1.4401	1.4401	
9	Tightening nut	1.4401	1.4401	
10	Locking plate	1.4401	1.4401	
11	Cock handle	0.8135	0.8135	
12	Right-left coupling	1.0711.07	1.0711.07	
14	Stop	1.4401	1.4401	
15	Hexagon head screw	A4	A4	
16	Washer	A4	A4	
17	Cap screw	A4	A4	
19	Circlip ring	1.4034	1.4034	
21	Gasket	Soft nickel	Soft nickel	